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A unifying framework for the ν -Tamari lattice and principal order ideals in Young's lattice

We present a unifying framework in which the ν -Tamari lattice, introduced by Préville-Ratelle and Viennot, and principal order ideals in Young's lattice indexed by lattice paths ν , are realized as the dual graphs of two triangulations of a family of flow polytopes. The first triangulation gives a new geometric realization of the ν -Tamari complex introduced by Ceballos, Padrol and Sarmiento. The second triangulation shows that the h^* -vector of this family of flow polytopes is given by the ν -Narayana numbers, extending a result of Mészáros. This is joint work with von Bell, González D'León, and Mayorga Cetina.